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NOTICE OF ALLOWANCE AND FEE(S) DUE

58467

7500

09/04/2009

EXAMINER
WANG, RONGFA PHILIP

PAPER NUMBER

MHKKG/SUN P.O. BOX 398 AUSTIN, TX 78767

ART UNIT

2191

DATE MAILED: 09/04/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/651,328	08/28/2003	Amy H. Kang	5681-69401	7788	

TITLE OF INVENTION: FLEXIBLE ERROR TRACE MECHANISM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/04/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

indicated unless correct maintenance fee notifica	ted below or directed of	therwise in Block 1, by (a) specifying a new co	orres	pondence address;	and/or	(b) indicating a sep	arate "	FEE ADDRESS" for
	Block 1 for any change of address)		Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, make its own certificate of mailing or transmission.					other accompanying	
58467 7590 09/04/2009 MHKKG/SUN P.O. BOX 398 AUSTIN, TX 78767			:	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an er addressed to the Mail Stop ISSUE FEE address above, or being fa transmitted to the USPTO (571) 273-2885, on the date indicated below.				sited with the United mail in an envelope , or being facsimile	
									(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE	E	FIRST NAMED INVEN	ГOR		ATTO	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/651,328 TITLE OF INVENTION	08/28/2003 N: FLEXIBLE ERROR T	FRACE MECHANISM	Amy H. Kang				5681-69401		7788
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		12/04/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	ss					
WANG, RO	NGFA PHILIP	2191	717-128000	_					
"Fee Address" inc PTO/SB/47; Rev 03- Number is required 3. ASSIGNEE NAME A PLEASE NOTE: Un	hed. Use of a Customer 'A TO BE PRINTED ON	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. N THE PATENT (print or type) the data will appear on the patent. If an assignee is identified below, the document has been filed for							
4a. The following fee(s) ☐ Issue Fee ☐ Publication Fee (1)	riate assignee category o	permitted)	b. Payment of Fee(s): (A check is enclose Payment by credit The Director is he	Pleased.	Individual Cose first reapply and Form PTO-2038 authorized to charge	y prev	on or other private griously paid issue fee ched.	shown	a above)
	ns SMALL ENTITY stat		☐ b. Applicant is no	long	ger claiming SMAL	L ENT		FR 1.2	7(g)(2).
interest as shown by the	records of the United St	ates Patent and Trademark	COffice.	an U	к аррисані, а regis	mitu a	morney of agent; of the	ic assi	succ or ourer party II
Authorized Signature	?				Date				
Typed or printed name					Registration No	o			
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	ntiality is governed by 3: and application form to the tions for reducing this bu Virginia 22313-1450. D	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR the USPTO. Time will vary riden, should be sent to the O NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ise Chief Information OCOMPLETED FORM	or restindiving	etain a benefit by the imated to take 12 n idual case. Any coi r, U.S. Patent and D THIS ADDRESS	ne publ ninutes mment Fradem . SENI	ic which is to file (an to complete, including s on the amount of the lark Office, U.S. Dep D TO: Commissioner	d by th ng gath me you artmen for Pat	e USPTO to process ering, preparing, and require to complete t of Commerce, P.O. ents, P.O. Box 1450

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/651,328	08/28/2003	Amy H. Kang	5681-69401	7788		
58467 75	58467 7590 09/04/2009		EXAM	EXAMINER		
MHKKG/SUN			WANG, RONGFA PHILIP			
P.O. BOX 398			ART UNIT	PAPER NUMBER		
AUSTIN, TX 78767			2191			
			DATE MAILED: 09/04/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 740 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 740 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/651,328	KANG ET AL.	
Notice of Allowability	Examiner	Art Unit	
	PHILIP WANG	2191	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due coun	se. THIS
1. This communication is responsive to <u>RCE filed on 7/22/200</u>	<u>19</u> .		
2. X The allowed claim(s) is/are <u>1, 4-11, 31-39, 42-44, 46-51, 54</u>	4-56, and 58-62 _.		
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicat	on No	rom the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. Itted. Note the attached EX	(AMINER'S AMENDMENT or NOTIC	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
 (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet. 	84(c)) should be written on	the drawings in the front (not the bacl	k) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I			the
Attachment(s)	E - Notice of I	oformal Datast Application	
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No	Summary (PTO-413), ./Mail Date s Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<u></u>	s Statement of Reasons for Allowan	ce
		 '	

Application/Control Number: 10/651,328 Page 2

Art Unit: 2191

DETAILED ACTION

1. This office action is in response to RCE filed on 7/22/2009.

2. Per Applicant's request, claims 1, 9, 10, 31, 32, 36, 39, 47, 48, 51, 59 and 60 have been amended.

- 3. Claims 1, 4-11, 31-39, 42-44, 46-51, 54-56, and 58-62 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach at least the limitation "in each of two or more threads of a multithreaded program, for each error generated by one or more functions executed in the thread, store an error trace element in thread private data of the respective thread, wherein the error trace element is stored by the thread to the respective thread private data in accordance with an application programming interface (API) to an error trace mechanism, and wherein the thread private data is a memory storage area of the multithreaded program accessible by the respective thread but not by others of the two or more threads; ." as similarly recited in independent claims 1, 9, 31, 36, 39, 47, 51, and 59.

The closest cited prior arts, H5E ("The Error Handling Interface H5E)" discloses a library and API for error tracing in a thread and Srivastava (USPGN 2005/0160431) discloses storing trace logs in logs corresponding to separate threads. The combination of H5E and Srivastava at best teaches or suggests storing error trace elements in thread private data of the respective thread. However, the combined

teaching does not teach or suggest the thread private data is only accessible by the respective thread but not by others of the two or more threads

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Wang whose telephone number is 571-272-5934. The examiner can normally be reached on Mon - Fri 8:00AM -4:00PM. Any inquiry of general nature or relating to the status of this application should be directed to the TC2100 Group receptionist: 571-272-2100.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on 571-272-3708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/651,328 Page 4

Art Unit: 2191

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Philip R. Wang/

8/1/2009